



CLAIM LISTING

1. (currently amended) A liner system for resisting the abrasive forces of a slurry being supplied to the upper end of a materials classifying cyclone comprising:

a) a cyclone inlet housing including a cylindrical head section and a feed duct for supplying the slurry to the head section; and

b) at least a pair of head section abrasion resistant liners arranged in an end-to-end relationship with each other so as to line the cylindrical interior surface of the head section of said inlet housing.

2. (Original) A liner system as claimed in claim 1 and further comprising: a feed duct liner of abrasion resistant material in the feed duct of said inlet housing.

3. (original) A liner system as claimed in claim 2 wherein each of said head section liners and said feed duct liner comprises:

a) rigid substrate; and

b) an abrasion resistant material bonded to the inwardly facing surface of each of said rigid substrates.

4. (original) A liner system as claimed in claim 3 and further comprising at least one attachment means for demountably holding said head section liners in contiguous engagement with the inner wall of the head section of said inlet housing and at least one attachment means for demountably holding said feed duct liner in contiguous engagement with the bottom and side walls of the feed duct of said inlet housing..

5. (original)A liner system as claimed in claim 4 wherein each of said attachment means comprises:

a) a threaded fastener on the inwardly facing surface of one of said rigid substrates; and

b) a bolt extending from the outer surface of said inlet housing into threaded engagement with said threaded fastener.

6. (original) A liner system as claimed in claim 5 wherein each of said attachment means further comprises;

a) said threaded fastener being buried within said abrasion resistant material;

b) said bolt having an inner end buried within said abrasion resistant material;

and

c) said bolt having an axial bore formed therethrough so that when said abrasion resistant material wears down and the inner end of said bolt is exposed a small amount of the slurry being processed in the cyclone will seep out to indicate that a liner replacement operation should be scheduled.

7.(original) A liner system as claimed in claim 3 wherein said abrasion resistant material is an elastomer.

8. (currently amended) A liner system as claimed in claim ~~[[2]]~~ 3 wherein said rigid substrate is metal.

9.(original) A liner system as claimed in claim 2 and further comprising:

a) the head section and the feed duct of said inlet housing having open tops;

b) said feed duct liner being of upwardly open U-shape in-cross-section;

c) a cover plate demountably mounted atop said inlet housing for closing the open tops of the head section and the feed duct of said inlet housing; and

d) an abrasion resistant cover plate liner in contiguous engagement with the downwardly facing surface of said cover plate.